Anton S. Hesse Curriculum Vitae 8/9/2024

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EDUCATION

2023	Ph.D., Kinesiology: Exercise Physiology University of Minnesota-Twin Cities, Minneapolis, MN College of Education and Human Development School of Kinesiology Dissertation advisor: Dr. Christopher Lundstrom & Dr. Beth Lewis Dissertation: Data Processing Methods and their Effects on the Limits of Agreement and Reliability of Automated Submaximal Threshold Calculations
2019	M.S., Kinesiology: Exercise Physiology University of Minnesota-Twin Cities, Minneapolis, MN College of Education and Human Development School of Kinesiology Thesis: <i>Examining the Respiratory Compensation Point with Automated</i> <i>Methods in Recreational Runners Training for a Marathon</i>
2015	B.A., Exercise Science B.A., Chemistry St. Olaf College, Northfield, MN

TEACHING EXPERIENCE

University of Minnesota – Twin Cities, School of Kinesiology

2024 – Present	Lecturer KIN 3027 – Human Anatomy for Kinesiology KIN 3385 – Human Physiology
2023	Teaching Specialist KIN 3027 – Human Anatomy for Kinesiology KIN 3385 – Human Physiology
2022 - 2023,	Teaching Assistant: Laboratory Instructor

2018 - 2020	KIN 3027 – Human Anatomy for Kinesiology
2020 - 2021	Teaching Assistant: Laboratory Instructor KIN 3385 – Human Physiology
2019 - 2020	Instructor of Record KIN 3027 – Human Anatomy for Kinesiology
2017 - 2018	Instructor of Record PE 1012 – Beginning Running
2017 – 2018	Instructor of Record PE 1014 – Conditioning

Concordia University – St. Paul, College of Health and Science

2022	Instructor of Record
	BIO 316 – Human Anatomy & Physiology II

Southwest Minnesota State University at North Hennepin Community College

2020	Instructor of Record
	EXSC 360 – Athletic Enhancement, Human Performance, & Exercise
	Leadership: Principles of strength and power, their assessment, and
	training applications

St. Olaf College, Exercise Science Department

2015	Teaching Assistant
	ESTH 375 – Physiology of Exercise Laboratory

PROFESSIONAL EXPERIENCE

2019 – Present	Exercise Physiologist, University of Minnesota Physicians, Minneapolis, MN
2022	Exercise technician, University of Minnesota School of Public Health, Minneapolis, MN
2015 - 2020	Personal Trainer, YMCA of the Greater Twin Cities, Minneapolis, MN
2018 - 2019	Laboratory Technician, DexaFit Minneapolis, Edina, MN
2015 - 2016	Quality Control Technician, Bell International Laboratories, Minneapolis, MN

PUBLICATIONS

Peer-Reviewed Journal Articles

2022	Sanchez, O. A., Hesse, A. S. , Betker, M. R., Lundstrom, C. J., Conroy, W. E., & Gao, Z. (2022). Cardiovascular Fitness and Associated Comorbidities in An Executive Health Program. <i>Exercise Medicine</i> , <i>6</i> (5), 1–8.
2021	Foreman NA*, Hesse AS *, Ji LL. Redox Signaling and Sarcopenia: Searching for the Primary Suspect. <i>International Journal of Molecular Sciences</i> . 2021; 22(16):9045. <u>https://doi.org/10.3390/ijms22169045</u>
Conference Posters	
2024	Hesse, A. , & Lundstrom, C. (2024). Different Data Pre-processing Minimally Affects Algorithm-derived Threshold Values On Average But Reveals Inherent Algorithm Variability: 3866. <i>Medicine & Science in</i> <i>Sports & Exercise (awaiting online publication and supplement volume,</i> <i>number, and page number).</i>
2023	Hesse, A. , & Lundstrom, C. (2023). Popularity And Prevalence Of Gas Exchange Data Processing Methods In Peer-reviewed Literature: A Scoping Review: 418. <i>Medicine & Science in Sports & Exercise</i> , 55(9S), 148-149.
2023	Lundstrom, C. J., Foreman, N. A., Hesse, A. S., & Lee, E. J. (2023). Physiological Responses To Marathon Training Are Similar Between Sexes, Despite Differences At Baseline: 966. <i>Medicine & Science in</i> <i>Sports & Exercise, 55</i> (9S), 324.
2022	Lundstrom, C. J., Foreman, N. A., Lee, E. J., Hesse, A. S. , & Biltz, G. R. (2022). Training-related Changes In Cardiac Autonomic Function Assessed Before And After Graded Exercise Testing: 2141. <i>Medicine & Science in Sports & Exercise</i> , <i>54</i> (98), 621–622.
2021	Foreman, N., Hesse, A. , & Lundstrom, C. (2021). Machine Learning Fails To Improve Marathon Time Prediction Compared To Multiple Linear Regression: 161. <i>Medicine & Science in Sports & Exercise</i> , <i>53</i> (8S), 49.
2021	Lundstrom, C. J., Lee, E. J., Foreman, N. A., Hesse, A. S. , & Biltz, G. R. (2021). Heart Rate Variability At Rest And During Steady State Exercise In Marathon Training Students: 48. <i>Medicine & Science in Sports & Exercise</i> , <i>53</i> (8S), 15-16.

RESEARCH EXPERIENCE

2016 - 2017	Graduate Research Assistant Marathon Study Assistant University of Minnesota, School of Kinesiology, Minneapolis, MN
2014 - 2015	Undergraduate Departmental Research Distinction in Exercise Science St. Olaf College, Northfield, MN
2013 - 2014	Undergraduate Research Assistant University of Minnesota, Food Science and Nutrition, Falcon Heights, MN

PRESENTATIONS

2019	Hesse, A. S. "Examining the Respiratory Compensation Point with Automated Methods in Recreational Runners Training for a Marathon," KIN Research Day – Minneapolis, MN. (May 1, 2019). <i>Invited</i> .
2015	Hesse, A. S., (Author & Presenter), Crouser, S., Peterson, N., Voldal, E. "A Comparison of Unilateral and Bilateral Plyometric and Strength Training on Sprint and Jump Performance in Collegiate Volleyball Athletes," Northland Chapter of American College of Sports Medicine Spring Tutorial Meeting - St. Cloud, MN. (April 10, 2015)

GRANTS & AWARDS

2021	Council of Graduate Students Conference Grant – University of Minnesota
2021	Excellence in Teaching Award – Kinesiology Department, University of Minnesota
2020	Recipient of the College of Education and Human Development Robert and Corrie Beck Graduate Fellowship
2019	Best 5-minute Presentation – Kinesiology Research Day
2014 - 2015	Undergraduate Departmental Research Distinction in Exercise Science, St. Olaf College, Northfield, MN

TECHNICAL SKILLS

R statistical programming, data cleaning and visualization, package development Python programming for data science and text analysis Maximal and submaximal running, walking, and cycling VO_{2max} Wingate, anaerobic treadmill, vertical jump, 30-meter fly Body composition via DXA, skinfolds, girths, bioelectric impedance analysis Flexibility, sphygmomanometry, and respiratory function

LANGUAGES

Fluent in Spanish

PROFESSIONAL MEMBERSHIPS AND CERTIFICATIONS

- 2020 Present American College of Sports Medicine
- 2023 Present American Physiological Society
- 2023 Present Human Anatomy & Physiological Society

SERVICE TO PROFESSION

2023 Crowd reviewer for the International Journal of Sports Medicine

2021 Guest reviewer for the *International Journal of Exercise Science*. January.